

# Amplitude Modulation Solved Problems

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 Amplitude modulation (AM) is a process by which the wave signal is transmitted by modulating the amplitude of the signal. Learn about the concept in detail here.  
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 In this chapter, let us solve a few problems based on the concept of Frequency Modulation. Problem 1 A sinusoidal modulating waveform of amplitude 5 V and a frequency of 2 KHz is applied to FM generator, which has a frequency sensitivity of 40 Hz/volt. Calculate the frequency deviation, modulation index, and bandwidth.  
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digital modulator serves as the interface to the communications channel. Its primary purpose is to map the information sequence into signal waveforms. The digital  
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 Amplitude, Frequency and Phase Modulation . 3 Carrier signals are used for two reasons: (1) To reduce the wavelength for efficient transmission and reception (the optimum antenna size is  $\frac{1}{4}$  of a wavelength). A typical audio frequency of 3000 Hz has a wavelength of 100 km and  
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 Amplitude modulation (AM) is a modulation technique used in electronic communication, most commonly for transmitting information via a radio carrier wave. In amplitude modulation, the amplitude (signal strength) of the carrier wave is varied in proportion to that of the message signal being transmitted. The message signal is, for example, a function of the sound to be reproduced by a ...  
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 60) In High level Amplitude Modulation. a. Modulation is done at high power of carrier and modulating signal b. Collector modulation method is High level Amplitude Modulation c. Power amplifiers are used to boost the carrier and modulating signals before modulation d. All of the above. ANSWER: (d) All of the above. 61) Square law modulators. a. Multiple Choice Questions and Answers on Amplitude Modulation  
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 We have discussed in earlier sessions about the parameters used in Amplitude Modulation. To determine the parameters, each one has its own formula. By using those formulas, we can find out the respective parameter

values. In this chapter, few problems are solved based on concept of amplitude modulation in order to understand the concept easily. Numerical Problems 1 in Analog Communication Tutorial 18 ... Amplitude Modulation refers to the process in which amplitude of the carrier wave is varied ... Solved Examples Problem: If  $c(t)$  and  $a(t)$  are used to generate an AM signal with Modulation Index (M.I.)=0.5, What is the ratio of total sideband power to carrier power? Amplitude Modulation SOLVED PROBLEMS are shame used is. SOLVED PROBLEMS 46. SOLVED PROBLEMS ve uand band =  $40 \times 20 + (20-1) 809$ -SVH2. SOLVED PROBLEMS 34 und for toansmittivg dnde pc8-sc bard. SOLVED PROBLEMS &w.net4ved frtoonag ee SSB-se drul- uandlband. SOLVED PROBLEMS 2. SOLVED PROBLEMS. SOLVED PROBLEMS So ,we arc hav n ASOw awes in cheme. Solved problems (part-1) - Unacademy Solutions to Practice Problems . Practice Problem 20.1 Physics dictates that antenna length is intrinsically tied to the wavelength of th e signal it is transmitting or receiving.

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Amplitude Modulation Definition, Types, Solved Examples Amplitude modulation (AM) is a process by which the wave signal is transmitted by modulating the amplitude of the signal. Learn about the concept in detail here.

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Carrier Wave, AM wave- Modulation index - Duration: 12:55.

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